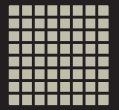
traxon



USER MANUAL

64PXL MIRROR WASH RGB
64PXL TILE WASH RGB
64PXL TILE MATRIX RGB

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FOR YOUR OWN SAFETY AND THAT OF THE PRODUCT, PLEASE READ THIS USER GUIDE CAREFULLY BEFORE BEGINNING SET-UP AND INSTALLATION!

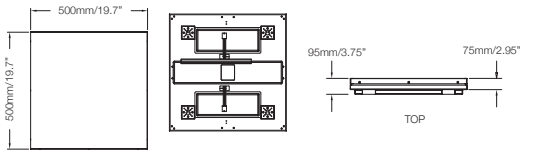
CAUTION: DO NOT OPEN OR HANDLE THE PANELS EXCEPT AT A STATIC FREE WORKSTATION OR WEARING AN ANTISTATIC WRIST STRAP.

1. INTRODUCTION

64PXL MIRROR WASH RGB (PA.MI.7110000)
64PXL TILE WASH RGB (PA.TI.7110000)
64PXL TILE MATRIX RGB (PA.TI.7110100)

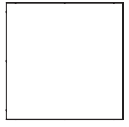
The 64PXL Panel is part of the Traxon™ Panels product line, enabling a flexible setup of medium to large scale RGB LED color changing walls. The 64PXL panel features 64 individually addressable pixels for full programming liberty.

- 64 individually controllable RGB SMDs
- Seamless color transition between the pixels
- DMX Control
- TX Connect Smart Cabling



2. PACKING CONTENTS

64PXL PANEL


1 x 64PXL Panel

1 x TX Connect Smart Interconnection Cable (60cm/23.6")

4 x Mounting Screws

3. SAFETY PRECAUTIONS

Failure to adhere to the following instructions could result in death, serious injury, or property damage, and will void the product warranty.

DANGER – ENSURE THAT MAIN POWER SUPPLY IS UNPLUGGED BEFORE INSTALLING OR WIRING THE PRODUCT.

CAUTION – POWER/DATA SUPPLY MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN OR TECHNICIAN IN ACCORDANCE WITH RELEVANT LOCAL STANDARDS AND REGULATIONS.

DO NOT ATTEMPT TO INSTALL OR USE THE PRODUCT UNTIL YOU HAVE READ THIS MANUAL THOROUGHLY AND UNDERSTAND THE INSTALLATION INSTRUCTIONS.

DO NOT USE THE PRODUCT IF ANY CABLES ARE DAMAGED.

This product is designed for indoor use only.

An ambient operating air temperature range of 0°C~40°C (32°F ~ 104°F) must be adhered to at all times.

DO NOT disassemble. The product has no user serviceable parts.

DO NOT use the product if the cover shield is broken.

If the product has been transported or stored in low temperatures, DO NOT connect it to the power supply until it has reached room temperature, to prevent any internal condensation from damaging the product's electronics.

DO NOT expose the product to moisture, extreme heat or direct sunlight. Use in a clean and dust free environment.

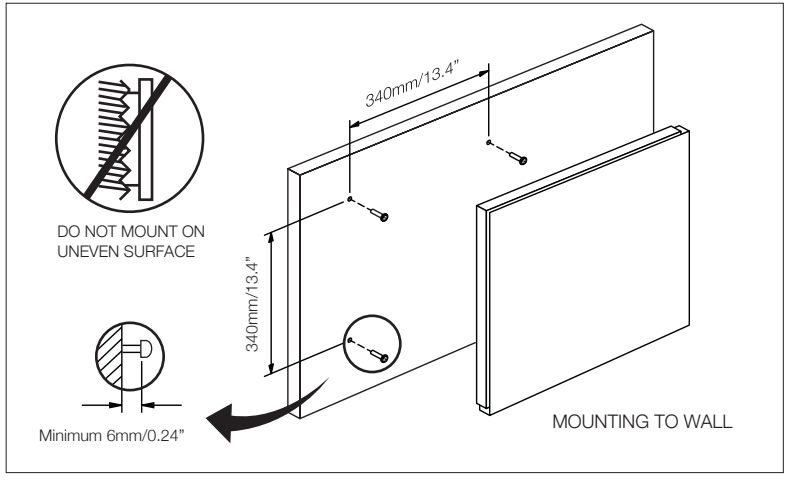
Avoid looking directly into the LED light at a close distance.

4. INSTALLATION AND SYSTEM CONFIGURATION

4-1 MOUNTING — WALL

- Use a pencil or chalk to mark the horizontal alignment before installation.
- Install four screws to the wall, leaving minimum clearance.
- Hang the panel on the wall as shown in Fig 1.

Fig 1: Mounting to Wall

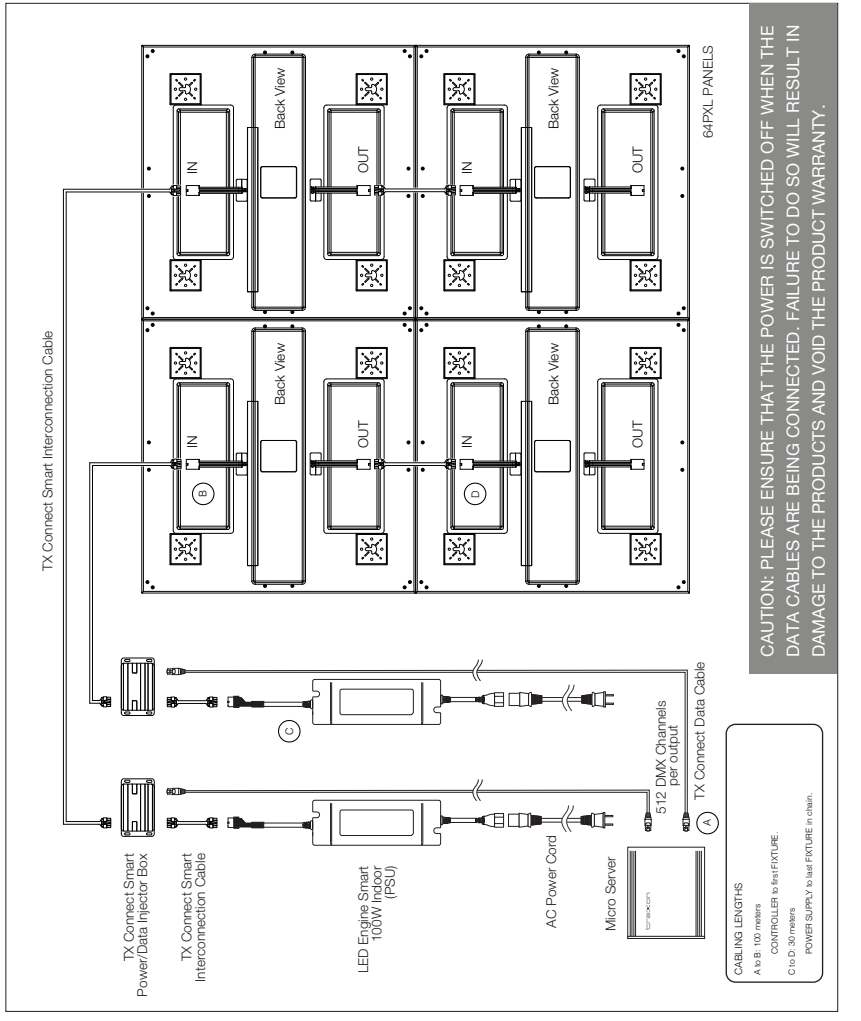


CAUTION – DO NOT INSTALL THE PANEL IF THE COVER SHIELD IS DAMAGED.

4-2 CONNECTION

The 64PXL panel can be controlled by the Traxon Micro Server or standard DMX512 controllers. Each Micro Server can control up to four 64PXL panels (two panels per DMX512 output). Connect the Micro Server to the 64PXL panels as shown in Fig 2.

Fig 2: 64PXL Panel System Connection Example


64PXL PANELS
Back View
IN
OUT
TX Connect Smart Interconnection Cable
TX Connect Data Cable
512 DMX Channels per output
TX Connect Smart Power/Data Injector Box
TX Connect Smart Interconnection Cable
LED Engine Smart 100W Indoor (PSU)
AC Power Cord
Micro Server
CAUTION: PLEASE ENSURE THAT THE POWER IS SWITCHED OFF WHEN THE DATA CABLES ARE BEING CONNECTED. FAILURE TO DO SO WILL RESULT IN DAMAGE TO THE PRODUCTS AND VOID THE PRODUCT WARRANTY.
CABLING LENGTHS
A to B: 100 meters
CONTROLLER to first FIXTURE:
C to D: 30 meters
POWER SUPPLY to last FIXTURE in chain.

4-3 CONTROL

The LEDs on the 64PXL panel are controlled by DMX. Each panel uses 192 DMX channels – 3 channels for each pixel. The pixel location and its DMX channels are shown below.

DMX Channel Allocation for two connected Panels.

Key:

▲ 1 Pixel Number

(1-3) DMX Channels

▲ Panel pixel number 1

16 (46-48)	12 (34-36)	8 (22-24)	4 (10-12)	17 (49-51)	21 (61-63)	25 (73-75)	29 (85-87)
15 (43-45)	11 (31-33)	7 (19-21)	3 (7-9)	18 (52-54)	22 (64-66)	26 (76-78)	30 (88-90)
14 (40-42)	10 (28-30)	6 (16-18)	2 (4-6)	19 (55-57)	23 (67-69)	27 (79-81)	31 (91-93)
13 (37-39)	9 (25-27)	5 (13-15)	▲ 1 (1-3)	20 (58-60)	24 (70-72)	28 (82-84)	32 (94-96)
64 (190-192)	60 (178-180)	56 (166-168)	52 (154-156)	33 (97-99)	37 (109-111)	41 (121-123)	45 (133-135)
63 (187-189)	59 (175-177)	55 (163-165)	51 (151-153)	34 (100-102)	38 (112-114)	42 (124-126)	46 (136-138)
62 (184-186)	58 (172-174)	54 (160-162)	50 (148-150)	35 (103-105)	39 (115-117)	43 (127-129)	47 (139-141)
61 (181-183)	57 (169-171)	53 (157-159)	49 (145-147)	36 (106-108)	40 (118-120)	44 (130-132)	48 (142-144)

PANEL 1

16 (238-240)	12 (226-228)	8 (214-216)	4 (202-204)	17 (241-243)	21 (253-255)	25 (265-267)	29 (277-279)
15 (235-237)	11 (223-225)	7 (211-213)	3 (199-201)	18 (244-246)	22 (256-258)	26 (268-270)	30 (280-282)
14 (232-234)	10 (220-222)	6 (208-210)	2 (196-198)	19 (247-249)	23 (259-261)	27 (271-273)	31 (283-285)
13 (229-231)	9 (217-219)	5 (205-207)	▲ 1 (193-195)	20 (250-252)	24 (262-264)	28 (274-276)	32 (286-288)
64 (382-384)	60 (370-372)	56 (358-360)	52 (346-348)	33 (289-291)	37 (301-303)	41 (313-315)	45 (325-327)
63 (379-381)	59 (367-369)	55 (355-357)	51 (343-345)	34 (292-294)	38 (304-306)	42 (316-318)	46 (328-330)
62 (376-378)	58 (364-366)	54 (352-354)	50 (340-342)	35 (295-297)	39 (307-309)	43 (319-321)	47 (331-333)
61 (373-375)	57 (361-363)	53 (349-351)	49 (337-339)	36 (298-300)	40 (310-312)	44 (322-324)	48 (334-336)

PANEL 2

4-4 POWER CONNECTIONS

Each LED Engine Smart 100W Indoor can power up to 2 panels. Make sure the panels are properly positioned and securely installed before connecting the power.
Please refer to Fig 2 for power connection to the system.

5. TROUBLESHOOTING

Problem	Solution
Panels cannot be installed close together	Ensure the installation surface is flat and smooth.
Images do not show on the connected panels	• Data cable length exceeds 100m/330ft. • Check the connections of the controller and panels. • Check that the power supply is connected and the power is ON. • Check the controller configuration.
No power supply	• DC power cable length exceeds 30m/99ft

6. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill and warranty obligations and gain good use and longevity from the products.

- Do not attempt or use the product(s) until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.
- Do not use product(s) if cables are damaged.
- Do not use product(s) when wet or in wet area. Moisture can cause electric shock and damage to product(s).
- Do not use product(s) in dirty and dusty environment.
- Do not use product(s) in extreme heat environment. Ensure there is sufficient airflow and use cool air circulation if required.
- Do not drop, knock, or shake product(s). Rough handling can damage the electronics and void the warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean products. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.
- Do not use product(s) outdoors.
- Do not attempt to service or repair the product(s) unless done by an authorized service personnel. Contact your the local Traxon™ office or distributor for details.

If the product is not working correctly, please contact your nearest authorized service centre or Traxon Technologies office for assistance.

7. TECHNICAL SPECIFICATIONS

Color Resolution :	3 x 14-bit (RGB)
Color Range:	16.7 million additive RGB colors with variable intensity
Light Source:	Ultra Bright SMD LED
Source Life:	50,000 hours under normal operating conditions
Beam Angle:	120°
Power Input:	24VDC
Current Consumption:	1.5A max.
Power Consumption:	36W max.
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature:	–20°C ~ 70°C (–4°F ~ 158°F)

For use with TRAXON LED Engine Smart 100W Indoor (PS.IA.0010000) power unit.

8. WARRANTY STATEMENT

Traxon warrants its Products against material or workmanship defects for a period of one (2) year from the date of purchase provided that the purchased items are under conditions stated in respective instruction manuals. Proof of purchase is necessary upon on warranty claim.

Any implied warranty of merchantability, or fitness for a particular purpose or use, shall be limited to the duration of the foregoing written warranty. Otherwise, the foregoing warranty is the purchaser's sole and exclusive remedy and is in lieu of all other warranties, express or implied. Traxon shall not be liable for any incidental or consequential damages or a loss of anticipated 16

All warranty information, product features and specifications are subject to change without notice.